

IN THE CLAIMS

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Please enter the following new claims:

21. A particle for removal of a toxic compound from a subject, comprising:

(a) a first region comprising reactive molecules, wherein said reactive molecules act to transform said toxic compound into a substantially inactive compound; and

(b) a second region comprising a material selected to partition said toxic compound from said subject into said second region, wherein said first region is in contact with at least a portion of said second region.

22. The particle of claim 21, wherein said reactive molecules are enzymes.

23. The particle of claim 22, wherein said material is hydrophobic.

24. The particle of claim 21, wherein said second region is an oil core and said first region comprises a reactive molecule dispersed within said oil core, wherein a surface film encapsulates said oil core.

25. The particle of claim 21, wherein said second region is a liquid core and said first region comprises a reactive molecule dispersed within said liquid core, wherein an inorganic or polymer shell encapsulates said liquid core.

26. The particle of claim 25, wherein said inorganic or polymer shell is porous to said toxic compound.

27. The particle of claim 25, wherein said inorganic or polymer shell contains templated pores.

28. The particle of claim 21, comprising a hollow tube open at least at one end, wherein said tube comprises an inorganic or polymer material and wherein said first region comprises a hydrophobic compound attached to an inside surface of said tubule and said second region comprises a reactive molecule attached to a surface of said tube.

29. The particle of claim 28, wherein said inorganic material is silica.

30. The particle of claim 28, wherein said hydrophobic compound is an alkyl compound.

31. The particle of claim 21, wherein said particle has a size from approximately 1 to 200nm.

32. The particle of claim 31, wherein said particle has a size from approximately 1 to 5nm.

33. A method of treating a subject exposed to a toxic compound comprising: contacting said subject with a composition comprising a particle comprising:

(a) a first region comprising reactive molecules, wherein said reactive molecules act to transform said toxic compound into a substantially inactive compound; and

(b) a second region comprising a material selected to partition said toxic compound from said subject into said second region,
wherein said first region is in contact with at least a portion of said second region,
wherein said contacting is for a time sufficient to allow said reactive molecules to transform a portion of said toxic compound to said substantially inactive compound.

34. The method of claim 33, wherein said subject is an animal.

35. The method of claim 33, wherein said subject is a human.

36. The method of claim 33, wherein said contacting comprises intravenous delivery.

37. The method of claim 33, wherein said reactive molecules are enzymes.

38. The method of claim 33 wherein said particle comprises a hollow tube open at least at one end, wherein said tube comprises an inorganic or polymer material and wherein said first region comprises a hydrophobic compound attached to an inside surface of said tube and said second region comprises said reactive molecule attached to a surface of said tube.

39. The method of claim 33, wherein said particle has a size from approximately 1 to 200nm.

40. The method of claim 39, wherein said particle has a size from approximately 1 to 5nm.

41. The method of claim 33 wherein said second region is an oil core and said first region comprises a reactive molecule dispersed within said oil core, wherein a surface film encapsulates said oil core.

42. The method of claim 33 wherein said second region is an liquid core and said first region comprises a reactive molecule dispersed within said liquid core, wherein an inorganic or polymer shell encapsulates said liquid core.